

 **Zepher 30**



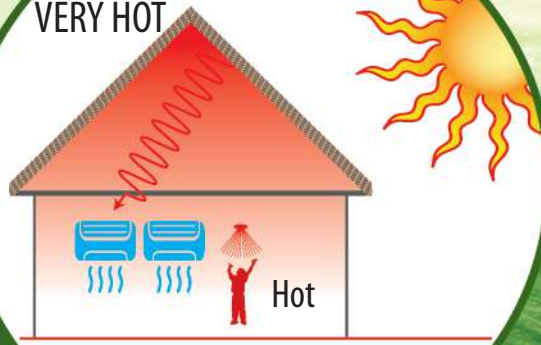
**ZEPHER 30 – THE ULTIMATE
COST EFFICIENT COOL ROOFING
SOLUTION FOR YOUR HOME**



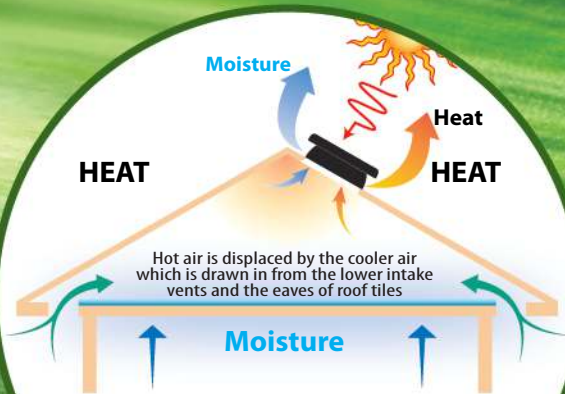
The earth is uniquely placed in our solar system to produce a balance of temperature, light and seasons that we experience. Lama's Zepher is a highly efficient solar powered roof ventilator which is able to harness a little of this free energy that reaches the earth from the sun, using the very same energy that heats up your home to make your home cooler and more comfortable to live in. This reduction in heat and moisture build up in the home allows for savings in electricity cooling costs, less mould and decay inside the home, thus a more comfortable and healthier living home with the preservation of the environment in mind.



VERY HOT



HEAT



Hot air is displaced by the cooler air which is drawn in from the lower intake vents and the eaves of roof tiles

How Zepher 30 Works

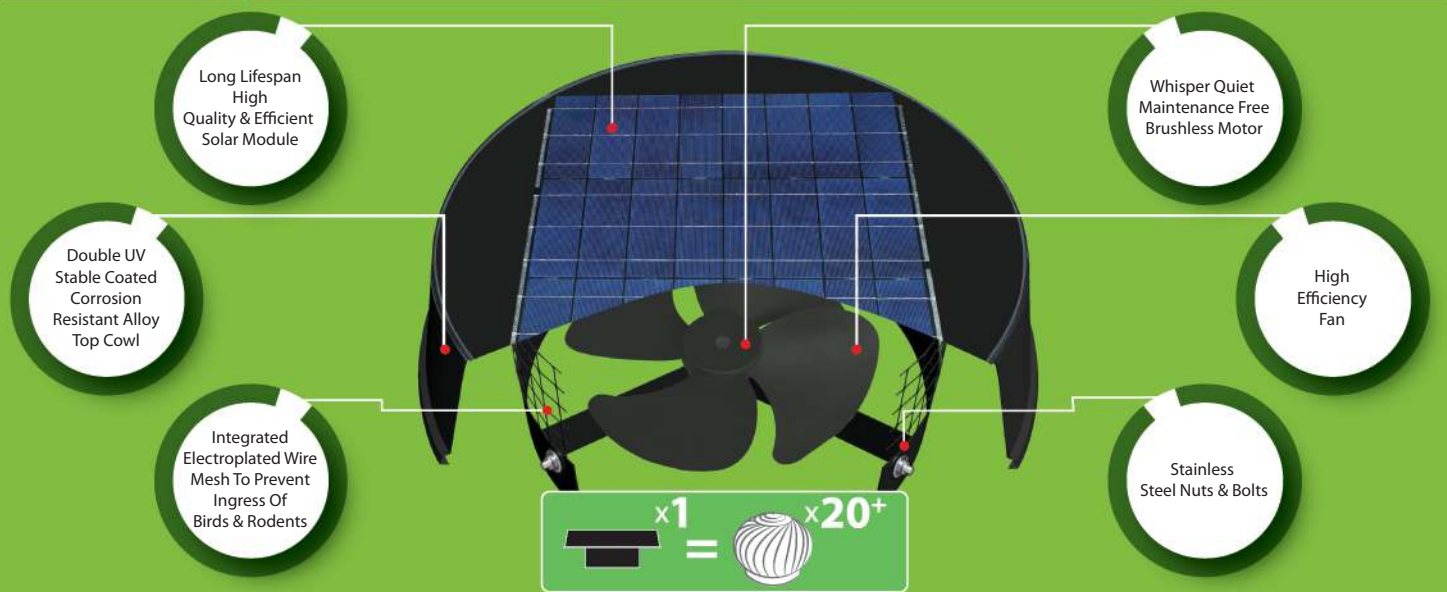
Zepher draws hot air and moisture out of the roof space and discharges them to outside the roof

The poor Solar Reflectance Indexes (SRI) of most roof designs allows radiant heat from the roof material to heat up the air beneath resulting in a very hot roof which can reach up to +70°C, easily seeping part of it into your home interior. In order to maintain a comfortable temperature inside your home, your air conditioning will have to work very much harder; its compressor loading up every few minutes. This results in very high electrical and air conditioning maintenance costs as well as a contribution of large amounts of greenhouse gases to our environment.

Our climate has plenty of sunlight throughout the day for the entire year and allows for a very effective and efficient operation of the Zepher. Its photovoltaic solar panel starts generating electricity to cool the roof when the sun starts heating the roof (sunrise), then stops working after the sun stops heating the roof (sunset). The Zepher purges the unwanted heat loads which are trapped in between the roof underside and above the ceiling, then replacing it with fresh and cool air allowing you to have a cool and less humid home environment for a zero RM\$ life cycle running cost.

TECHNICAL SPECIFICATIONS

Solar Panel	High Quality 30 Watt Polycrystalline Photovoltaic Solar Panel with impact resistant panel for protection against hail and foreign object damage.
Motor	12 – 30V Electro-magnetic Brushless DC Motor with Sealed Roller Bearings
Fan	High Flow Efficiency Polypropylene Fan (Approx. 1200m ³ ± 10% @ 21V, S.F.P. 0.0175)
Body	Corrosion Resistant Double UV Stable Powder Coated Aluminium Body with Stainless Steel Nuts & Bolts.
Physical Dimension	650mm Top Diameter, 280mm Overall Height. 366mm Neck Diameter & Approximately 8kg.
Warranty	5 Years Limited Pro-Rata Warranty On Motor & Solar Module
Flashing	Low Profile & Unobstructive FRP & Polypropylene Flashing Suitable For Most Roof Applications



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